

IN THE CLAIMS:

1. (Currently Amended) A metal halide lamp comprised of a ceramic discharge chamber containing an ionizable fill, said fill comprising Hg, and halides (H) of Na, Tl, an alkaline earth metal, and a rare earth element (RE) wherein a molar ratio percentage of moles of the TIH to the total number of moles of the halide fill constituents is from 2% to 5% and further wherein said molar ratio percentage for said rare earth halide is from > 0 to $< 15\%$.

2. (Original) The metal halide lamp of claim 1 wherein said fill further comprises Cs halide.

3. (Previously Amended) The metal halide lamp of claim 2 comprising molar fraction the halides in the following ranges:

%

REH	$> 0-15$
CsH	$> 0-15$
NaH	45-86
TIH	2-5
CaH	15-45

4. (Original) The lamp of claim 1 wherein said rare earth element is selected from Ho, Dy, Tm, and mixtures thereof.

5. (Original) The lamp of claim 4 wherein said rare earth element is Ho.

6. (Original) The lamp of claim 1 having a power greater than 200 watts.

7. (Original) The lamp of claim 1 having a power between about 250 and 400 watts.

8. (Original) The lamp of claim 4 wherein said ionizable fill includes only a single rare earth element.

9. (Original) The lamp of claim 1 having a color temperature between about 2500 and 4500°K.

10. (Original) The lamp of claim 9 having a color temperature between about 2800 and 3200°K.

11. (Currently Amended) A metal halide lamp comprised of a ceramic discharge chamber containing an ionizable fill, said fill comprising Hg and halides of Na, Ti an alkaline earth metal and a rare earth element wherein a molar ratio percentage of said rare earth halide is from >0 to <15% and further wherein said lamp has a color rendering index of greater than 80.

12. (Original) The lamp of claim 1 wherein said halide is selected from chlorine, bromine, iodine and mixtures thereof.

13. (Original) The lamp of claim 1 wherein said alkaline earth metal comprises calcium.

14. (Original) The lamp of claim 1 having a molar ratio wherein:
 $2 \leq \text{NaH}/(\text{TiH} + \text{REH}_3) \leq 10$.

15. (Currently Amended) The lamp of claim 13 wherein:
 $15\% \leq \text{moles CaH}/\text{total number of moles of the halides fill constituents} < 45\%$.

16. (Original) The lamp of claim 1 wherein:
 $0.85 < \text{power factor} < 0.90$.jkl

17. (Currently Amended) The lamp of claim 1 wherein:
80< operating voltage<110 volts in a vertical burn orientation.

18. (Currently Amended) The lamp of claim 17 wherein:
90< operating voltage<120 volts in a horizontal burn orientation.

19. (Cancelled)

20. (Currently Amended) The lamp of claim 1 wherein:
 $4\% \leq$ moles REH/total number of moles of the halides fill constituents $\leq 8\%$.

21. (Currently Amended) The lamp of claim 1 wherein:
 $45\% \leq$ moles NaH/total number of moles of the halides fill constituents $\leq 86\%$.

22. (Original) A metal halide lamp comprised of a ceramic discharge chamber containing an ionizable fill, said fill comprising mercury, and halides of sodium, thallium, an alkaline earth metal and $0\% <$ at least 3 rare earth elements $< 15\%$.

23. (Previously Amended) A metal halide lamp comprised of a ceramic discharge chamber containing an ionizable fill, said fill comprising mercury, and halides (H) of sodium, thallium, an alkaline earth metal, at least one rare earth element and cesium wherein a molar ratio percentage of TIH to the total number of moles of halide is from 2% to 5%.

24. (Currently Amended) A dose for a metal halide lamp comprised of mercury, and halides (H) of sodium, thallium, an alkaline earth metal, at least three rare earth elements, and cesium wherein said lamp has a color rendering index of greater than 80.

THE OFFICE ACTION

The following objections/rejections were noted in the Office Action.

The specification was objected to as including an informality at page 4, paragraph 17, line 2. Claims 1, 11, 15, 16, 18, 20, 21 and 24 were rejected under 35 USC §112, 2nd paragraph.